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SEQUENCE LISTING

<110> BAKER, Matthew
CARR, Francis J.

<120> MODIFIED BRYODIN 1 WITH REDUCED
IMMUNOGENICITY

<130> MER-134

<140> US/10/517,707
<141> 2004-12-10

<150> PCT/EP03/06055
<151> 2003-06-10

<150> EP 02012911.0
<151> 2002-06-11

<160> 183

<170> FastSEQ for Windows Version 4.0

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<211> 267
<212> PRT
<213> Homo sapiens

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Asn Ile Pro Leu Leu Arg Ser Ser Ile Ser Gly Ser Gly Arg Tyr Thr
35 40 45
Leu Leu His Leu Thr Asn Tyr Ala Asp Glu Thr Ile Ser Val Ala Val
50 55 60
Asp Val Thr Asn Val Tyr Ile Met Gly Tyr Leu Ala Gly Asp Val Ser
65 70 75 80
Tyr Phe Phe Asn Glu Ala Ser Ala Thr Glu Ala Ala Lys Phe Val Phe
85 90 95
Lys Asp Ala Lys Lys Lys Val Thr Leu Pro Tyr Ser Gly Asn Tyr Glu
100 105 110
Arg Leu Gln Thr Ala Ala Gly Lys Ile Arg Glu Asn Ile Pro Leu Gly
115 120 125
Leu Pro Ala Leu Asp Ser Ala Ile Thr Thr Leu Tyr Tyr Thr Ala
130 135 140
Ser Ser Ala Ala Ser Ala Leu Leu Val Leu Ile Gln Ser Thr Ala Glu
145 150 155 160
Ser Ala Arg Tyr Lys Phe Ile Glu Gln Gln Ile Gly Lys Arg Val Asp
165 170 175
Lys Thr Phe Leu Pro Ser Leu Ala Thr Ile Ser Leu Glu Asn Asn Trp
180 185 190
Ser Ala Leu Ser Lys Gln Ile Gln Ile Ala Ser Thr Asn Asn Gly Gln
195 200 205
Phe Glu Ser Pro Val Val Leu Ile Asp Gly Asn Asn Gln Arg Val Ser
210 215 220
Ile Thr Asn Ala Ser Ala Arg Val Val Thr Ser Asn Ile Ala Leu Leu
225 230 235 240

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<110> BAKER, Matthew
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<120> MODIFIED BRYODIN 1 WITH REDUCED
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Asp	Val	Ser	Phe	Arg	Leu	Ser	Gly	Ala	Thr	Thr	Thr	Ser	Tyr	Gly	Val
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			20					25					30		
Asn	Ile	Pro	Leu	Leu	Arg	Ser	Ser	Ile	Ser	Gly	Ser	Gly	Arg	Tyr	Thr
		35				40					45				
Leu	Leu	His	Leu	Thr	Asn	Tyr	Ala	Asp	Glu	Thr	Ile	Ser	Val	Ala	Val
	50				55					60					
Asp	Val	Thr	Asn	Val	Tyr	Ile	Met	Gly	Tyr	Leu	Ala	Gly	Asp	Val	Ser
65				70					75					80	
Tyr	Phe	Phe	Asn	Glu	Ala	Ser	Ala	Thr	Glu	Ala	Ala	Lys	Phe	Val	Phe
			85					90					95		
Lys	Asp	Ala	Lys	Lys	Lys	Val	Thr	Leu	Pro	Tyr	Ser	Gly	Asn	Tyr	Glu
		100						105				110			
Arg	Leu	Gln	Thr	Ala	Ala	Gly	Lys	Ile	Arg	Glu	Asn	Ile	Pro	Leu	Gly
	115					120					125				
Leu	Pro	Ala	Leu	Asp	Ser	Ala	Ile	Thr	Thr	Leu	Tyr	Tyr	Tyr	Thr	Ala
	130				135					140					
Ser	Ser	Ala	Ala	Ser	Ala	Leu	Leu	Val	Leu	Ile	Gln	Ser	Thr	Ala	Glu
145				150					155					160	
Ser	Ala	Arg	Tyr	Lys	Phe	Ile	Glu	Gln	Gln	Ile	Gly	Lys	Arg	Val	Asp
			165					170					175		
Lys	Thr	Phe	Leu	Pro	Ser	Leu	Ala	Thr	Ile	Ser	Leu	Glu	Asn	Asn	Trp
		180					185					190			
Ser	Ala	Leu	Ser	Lys	Gln	Ile	Gln	Ile	Ala	Ser	Thr	Asn	Asn	Gly	Gln
	195					200					205				
Phe	Glu	Ser	Pro	Val	Val	Leu	Ile	Asp	Gly	Asn	Asn	Gln	Arg	Val	Ser
	210					215				220					
Ile	Thr	Asn	Ala	Ser	Ala	Arg	Val	Val	Thr	Ser	Asn	Ile	Ala	Leu	Leu
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Val Ala Val Asp Val
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Gly Leu Pro Ala Leu Asp Ser Ala
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Leu Val Leu Ile Gln Ser Thr Ala Glu Ser Ala
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<213> Homo sapiens
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  1             5             10             15

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Gln Ile Ala Ser Thr
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Xaa=Ala, Gly, Pro
Xaa=Pro, Tyr

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<223> Xaa=Thr, Ser
Xaa=Pro
Xaa=Ala, Gly, Pro
Xaa=Ala, Gly, Pro

<221> VARIANT
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<223> Xaa=Ala, Gly, Pro, His, Asp, Glu, Asn, Gln, Lys,
Arg, Ser, Thr
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Xaa=Ala, Gly, Pro
Xaa=Ala, Pro, Ser, Thr, His, Lys

<221> VARIANT
<222> 117, 119, 120, 121
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Xaa=His
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Xaa=Ala, Ser, thr, Pro, Asn, Asp, Glu, Gly, His,
Lys, Gln

<221> VARIANT
<222> 122, 125, 139, 132
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 Glu, Asn, Gln
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Phe	Ile	Lys	Asn	Leu	Arg	Glu	Ala	Leu	Pro	Tyr	Glu	Arg	Lys	Val	Tyr
			20					25					30		
Asn	Ile	Pro	Leu	Leu	Arg	Ser	Ser	Ile	Ser	Gly	Ser	Gly	Arg	Tyr	Xaa
			35				40					45			
Xaa	Leu	Xaa	Leu	Thr	Xaa	Xaa	Ala	Asp	Glu	Thr	Xaa	Ser	Val	Ala	Xaa
	50					55					60				
Asp	Xaa	Thr	Asn	Val	Tyr	Ile	Met	Gly	Tyr	Leu	Ala	Gly	Asp	Val	Ser
65					70					75				80	
Tyr	Phe	Phe	Asn	Glu	Ala	Ser	Ala	Thr	Glu	Ala	Ala	Lys	Xaa	Xaa	Phe
			85						90					95	
Lys	Asp	Ala	Lys	Lys	Lys	Xaa	Thr	Leu	Pro	Tyr	Ser	Gly	Asn	Tyr	Glu
			100					105					110		
Arg	Xaa	Gln	Thr	Xaa	Ala	Xaa	Xaa	Xaa	Xaa	Glu	Asn	Xaa	Pro	Leu	Gly
		115				120						125			
Xaa	Pro	Ala	Xaa	Asp	Ser	Ala	Xaa	Thr	Thr	Xaa	Tyr	Xaa	Xaa	Thr	Ala
	130					135					140				
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145					150					155				160	
Ser	Ala	Arg	Tyr	Lys	Phe	Ile	Glu	Gln	Gln	Ile	Gly	Lys	Arg	Val	Asp
			165					170						175	
Lys	Thr	Phe	Leu	Pro	Ser	Leu	Ala	Thr	Xaa	Ser	Xaa	Glu	Asn	Asn	Trp
			180					185					190		
Ser	Ala	Xaa	Ser	Xaa	Gln	Xaa	Gln	Xaa	Ala	Ser	Thr	Asn	Asn	Gly	Gln
		195				200						205			
Phe	Glu	Ser	Pro	Val	Val	Leu	Ile	Asp	Gly	Asn	Asn	Gln	Arg	Val	Ser
	210					215					220				
Ile	Thr	Asn	Ala	Ser	Ala	Arg	Val	Val	Thr	Ser	Asn	Ile	Ala	Leu	Leu
225					230					235				240	
Leu	Asn	Arg	Asn	Asn	Ile	Ala	Ala	Ile	Gly	Glu	Asp	Ile	Ser	Met	Thr
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Pro Lys Tyr Val Lys Gln Asn Thr Leu Lys Leu Ala Thr
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Lys Val Val Asp Gln Ile Lys Lys Ile Ser Lys Pro Val Gln His
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Val Ser Phe Arg Leu Ser Gly Ala Thr Thr Thr Ser Tyr
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Phe Arg Leu Ser Gly Ala Thr Thr Thr Ser Tyr Gly Val
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Thr Ser Tyr Gly Val Phe Ile Lys Asn Leu Arg Glu Ala
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 Tyr Gly Val Phe Ile Lys Asn Leu Arg Glu Ala Leu Pro
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 Val Phe Ile Lys Asn Leu Arg Glu Ala Leu Pro Tyr Glu
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 Lys Asn Leu Arg Glu Ala Leu Pro Tyr Glu Arg Lys Val
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Leu Pro Tyr Glu Arg Lys Val Tyr Asn Ile Pro Leu Leu
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Tyr Asn Ile Pro Leu Leu Arg Ser Ser Ile Ser Gly Ser
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 Pro Leu Leu Arg Ser Ser Ile Ser Gly Ser Gly Arg Tyr
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Tyr Thr Leu Leu His Leu Thr Asn Tyr Ala Asp Glu Thr
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Thr Asn Tyr Ala Asp Glu Thr Ile Ser Val Ala Val Asp
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Val Ala Val Asp Val Thr Asn Val Tyr Ile Met Gly Tyr
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Val Asp Val Thr Asn Val Tyr Ile Met Gly Tyr Leu Ala
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5

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1

5

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1

5

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5

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Leu Gly Leu Pro Ala Leu Asp Ser Ala Ile Thr Thr Leu
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<400> 56

Pro Ala Leu Asp Ser Ala Ile Thr Thr Leu Tyr Tyr Tyr
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Ser Ala Ile Thr Thr Leu Tyr Tyr Tyr Thr Ala Ser Ser
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<400> 58

Thr Thr Leu Tyr Tyr Tyr Thr Ala Ser Ser Ala Ala Ser
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 Thr Leu Tyr Tyr Tyr Thr Ala Ser Ser Ala Ala Ser Ala
 1 5 10

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Ala Leu Leu Val Leu Ile Gln Ser Thr Ala Glu Ser Ala
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Leu Val Leu Ile Gln Ser Thr Ala Glu Ser Ala Arg Tyr
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Val Leu Ile Gln Ser Thr Ala Glu Ser Ala Arg Tyr Lys
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Ala Arg Tyr Lys Phe Ile Glu Gln Gln Ile Gly Lys Arg
1 5 10

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<400> 68

Tyr Lys Phe Ile Glu Gln Gln Ile Gly Lys Arg Val Asp
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<210> 69

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<400> 69

Lys Phe Ile Glu Gln Gln Ile Gly Lys Arg Val Asp Lys
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<400> 70

Gln Gln Ile Gly Lys Arg Val Asp Lys Thr Phe Leu Pro
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<400> 71

Lys Arg Val Asp Lys Thr Phe Leu Pro Ser Leu Ala Thr
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<400> 72

Lys Thr Phe Leu Pro Ser Leu Ala Thr Ile Ser Leu Glu
1 5 10

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<400> 73
 Thr Phe Leu Pro Ser Leu Ala Thr Ile Ser Leu Glu Asn
 1 5 10

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<400> 74
 Pro Ser Leu Ala Thr Ile Ser Leu Glu Asn Asn Trp Ser
 1 5 10

<210> 75
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<400> 75
 Ala Thr Ile Ser Leu Glu Asn Asn Trp Ser Ala Leu Ser
 1 5 10

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<400> 76
 Ile Ser Leu Glu Asn Asn Trp Ser Ala Leu Ser Lys Gln
 1 5 10

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<400> 77

Asn Asn Trp Ser Ala Leu Ser Lys Gln Ile Gln Ile Ala
1 5 10

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<400> 78

Ser Ala Leu Ser Lys Gln Ile Gln Ile Ala Ser Thr Asn
1 5 10

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<400> 79

Lys Gln Ile Gln Ile Ala Ser Thr Asn Asn Gly Gln Phe
1 5 10

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<400> 80

Ile Gln Ile Ala Ser Thr Asn Asn Gly Gln Phe Glu Ser
1 5 10

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<400> 81

Gly Gln Phe Glu Ser Pro Val Val Leu Ile Asp Gly Asn
1 5 10

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 Ser Pro Val Val Leu Ile Asp Gly Asn Asn Gln Arg Val
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<400> 83
 Pro Val Val Leu Ile Asp Gly Asn Asn Gln Arg Val Ser
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<400> 84
 Val Val Leu Ile Asp Gly Asn Asn Gln Arg Val Ser Ile
 1 5 10

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<400> 85
 Val Leu Ile Asp Gly Asn Asn Gln Arg Val Ser Ile Thr
 1 5 10

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<400> 86

Gln Arg Val Ser Ile Thr Asn Ala Ser Ala Arg Val Val
 1 5 10

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<400> 87
 Val Ser Ile Thr Asn Ala Ser Ala Arg Val Val Thr Ser
 1 5 10

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<400> 88
 Ala Arg Val Val Thr Ser Asn Ile Ala Leu Leu Leu Asn
 1 5 10

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<400> 89
 Arg Val Val Thr Ser Asn Ile Ala Leu Leu Leu Asn Arg
 1 5 10

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 Ser Asn Ile Ala Leu Leu Leu Asn Arg Asn Asn Ile Ala
 1 5 10

<210> 91
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<400> 91

Ile Ala Leu Leu Leu Asn Arg Asn Asn Ile Ala Ala Ile
1 5 10

<210> 92

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<400> 92

Ala Leu Leu Leu Asn Arg Asn Asn Ile Ala Ala Ile Gly
1 5 10

<210> 93

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Leu Leu Leu Asn Arg Asn Asn Ile Ala Ala Ile Gly Glu
1 5 10

<210> 94

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<400> 94

Asn Asn Ile Ala Ala Ile Gly Glu Asp Ile Ser Met Thr
1 5 10

<210> 95

<211> 13

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<400> 95

Ala Ala Ile Gly Glu Asp Ile Ser Met Thr Leu Ile Gly
1 5 10

<210> 96
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<400> 96
 Glu Asp Ile Ser Met Thr Leu Ile Gly Phe Glu His Gly
 1 5 10

<210> 97
 <211> 13
 <212> PRT
 <213> Artificial Sequence

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<400> 97
 Ile Ser Met Thr Leu Ile Gly Phe Glu His Gly Leu Tyr
 1 5 10

<210> 98
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<400> 98
 Met Thr Leu Ile Gly Phe Glu His Gly Leu Tyr Gly Ile
 1 5 10

<210> 99
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 <212> PRT
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<400> 99
 Asp Val Ser Phe Arg Leu Ser Gly Ala Thr Thr Thr Ser Tyr Gly
 1 5 10 15

<210> 100
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<400> 100

Phe Arg Leu Ser Gly Ala Thr Thr Thr Ser Tyr Gly Val Phe Ile
1 5 10 15

<210> 101

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<400> 101

Ser Gly Ala Thr Thr Thr Ser Tyr Gly Val Phe Ile Lys Asn Leu
1 5 10 15

<210> 102

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

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<400> 102

Thr Thr Thr Ser Tyr Gly Val Phe Ile Lys Asn Leu Arg Glu Ala
1 5 10 15

<210> 103

<211> 15

<212> PRT

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<220>

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<400> 103

Ser Tyr Gly Val Phe Ile Lys Asn Leu Arg Glu Ala Leu Pro Tyr
1 5 10 15

<210> 104

<211> 15

<212> PRT

<213> Artificial Sequence

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<223> Fragments of Bryodin 1

<400> 104

Val Phe Ile Lys Asn Leu Arg Glu Ala Leu Pro Tyr Glu Arg Lys
1 5 10 15

<210> 105

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Fragments of Bryodin 1

<400> 105

Lys	Asn	Leu	Arg	Glu	Ala	Leu	Pro	Tyr	Glu	Arg	Lys	Val	Tyr	Asn
1				5					10					15

<210> 106

<211> 15

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<223> Fragments of Bryodin 1

<400> 106

Arg	Glu	Ala	Leu	Pro	Tyr	Glu	Arg	Lys	Val	Tyr	Asn	Ile	Pro	Leu
1				5					10					15

<210> 107

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<400> 107

Leu	Pro	Tyr	Glu	Arg	Lys	Val	Tyr	Asn	Ile	Pro	Leu	Leu	Arg	Ser
1				5					10					15

<210> 108

<211> 15

<212> PRT

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<223> Fragments of Bryodin 1

<400> 108

Glu	Arg	Lys	Val	Tyr	Asn	Ile	Pro	Leu	Leu	Arg	Ser	Ser	Ile	Ser
1				5					10					15

<210> 109

<211> 15

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<213> Artificial Sequence

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<223> Fragments of Bryodin 1

<400> 109

Val	Tyr	Asn	Ile	Pro	Leu	Leu	Arg	Ser	Ser	Ile	Ser	Gly	Ser	Gly
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

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<223> Fragments of Bryodin 1

<400> 114

Arg	Tyr	Thr	Leu	Leu	His	Leu	Thr	Asn	Tyr	Ala	Asp	Glu	Thr	Ile
1				5					10					15

<210> 115

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<212> PRT

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<400> 115

Leu	Leu	His	Leu	Thr	Asn	Tyr	Ala	Asp	Glu	Thr	Ile	Ser	Val	Ala
1				5					10					15

<210> 116

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<400> 116

Leu	Thr	Asn	Tyr	Ala	Asp	Glu	Thr	Ile	Ser	Val	Ala	Val	Asp	Val
1				5					10					15

<210> 117

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<400> 117

Tyr	Ala	Asp	Glu	Thr	Ile	Ser	Val	Ala	Val	Asp	Val	Thr	Asn	Val
1				5					10					15

<210> 118

<211> 15

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<400> 118

Glu	Thr	Ile	Ser	Val	Ala	Val	Asp	Val	Thr	Asn	Val	Tyr	Ile	Met
1				5					10					15

<210> 119

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<223> Fragments of Bryodin 1

<400> 119

Ser	Val	Ala	Val	Asp	Val	Thr	Asn	Val	Tyr	Ile	Met	Gly	Tyr	Leu
1				5					10					15

<210> 120

<211> 15

<212> PRT

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<400> 120

Val	Asp	Val	Thr	Asn	Val	Tyr	Ile	Met	Gly	Tyr	Leu	Ala	Gly	Asp
1				5					10					15

<210> 121

<211> 15

<212> PRT

<213> Artificial Sequence

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<400> 121

Thr	Asn	Val	Tyr	Ile	Met	Gly	Tyr	Leu	Ala	Gly	Asp	Val	Ser	Tyr
1				5					10					15

<210> 122

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<212> PRT

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<223> Fragments of Bryodin 1

<400> 122

Tyr	Ile	Met	Gly	Tyr	Leu	Ala	Gly	Asp	Val	Ser	Tyr	Phe	Phe	Asn
1					5				10					15

<210> 123

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<400> 123

Gly	Tyr	Leu	Ala	Gly	Asp	Val	Ser	Tyr	Phe	Phe	Asn	Glu	Ala	Ser
1				5					10					15

<210> 124

<211> 15

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<400> 124

Ala	Gly	Asp	Val	Ser	Tyr	Phe	Phe	Asn	Glu	Ala	Ser	Ala	Thr	Glu
1				5					10					15

<210> 125

<211> 15

<212> PRT

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<223> Fragments of Bryodin 1

<400> 125

Val	Ser	Tyr	Phe	Phe	Asn	Glu	Ala	Ser	Ala	Thr	Glu	Ala	Ala	Lys
1				5					10					15

<210> 126

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<400> 126

Phe	Phe	Asn	Glu	Ala	Ser	Ala	Thr	Glu	Ala	Ala	Lys	Phe	Val	Phe
1				5					10					15

<210> 127

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<400> 127

Glu	Ala	Ser	Ala	Thr	Glu	Ala	Ala	Lys	Phe	Val	Phe	Lys	Asp	Ala
1				5					10					15

<210> 128

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<400> 128

Ala	Thr	Glu	Ala	Ala	Lys	Phe	Val	Phe	Lys	Asp	Ala	Lys	Lys	Lys
1				5					10					15

<210> 129

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<223> Fragments of Bryodin 1

<400> 129

Ala	Ala	Lys	Phe	Val	Phe	Lys	Asp	Ala	Lys	Lys	Lys	Val	Thr	Leu
1				5					10					15

<210> 130

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<212> PRT

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<223> Fragments of Bryodin 1

<400> 130

Phe	Val	Phe	Lys	Asp	Ala	Lys	Lys	Lys	Val	Thr	Leu	Pro	Tyr	Ser
1				5					10					15

<210> 131

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<400> 131

Lys	Asp	Ala	Lys	Lys	Lys	Val	Thr	Leu	Pro	Tyr	Ser	Gly	Asn	Tyr
1				5					10					15

<210> 132

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<212> PRT

<213> Artificial Sequence

<220>

<223> Fragments of Bryodin 1

<400> 132

Lys	Lys	Lys	Val	Thr	Leu	Pro	Tyr	Ser	Gly	Asn	Tyr	Glu	Arg	Leu
1					5					10				15

<210> 133
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<400> 133
 Val Thr Leu Pro Tyr Ser Gly Asn Tyr Glu Arg Leu Gln Thr Ala
 1 5 10 15

<210> 134
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<400> 134
 Pro Tyr Ser Gly Asn Tyr Glu Arg Leu Gln Thr Ala Ala Gly Lys
 1 5 10 15

<210> 135
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<220>
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<400> 135
 Gly Asn Tyr Glu Arg Leu Gln Thr Ala Ala Gly Lys Ile Arg Glu
 1 5 10 15

<210> 136
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 136
 Glu Arg Leu Gln Thr Ala Ala Gly Lys Ile Arg Glu Asn Ile Pro
 1 5 10 15

<210> 137
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<220>

<223> Fragments of Bryodin 1

<400> 137

Gln Thr Ala Ala Gly Lys Ile Arg Glu Asn Ile Pro Leu Gly Leu
1 5 10 15

<210> 138

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Fragments of Bryodin 1

<400> 138

Ala Gly Lys Ile Arg Glu Asn Ile Pro Leu Gly Leu Pro Ala Leu
1 5 10 15

<210> 139

<211> 15

<212> PRT

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<220>

<223> Fragments of Bryodin 1

<400> 139

Ile Arg Glu Asn Ile Pro Leu Gly Leu Pro Ala Leu Asp Ser Ala
1 5 10 15

<210> 140

<211> 15

<212> PRT

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<220>

<223> Fragments of Bryodin 1

<400> 140

Asn Ile Pro Leu Gly Leu Pro Ala Leu Asp Ser Ala Ile Thr Thr
1 5 10 15

<210> 141

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Fragments of Bryodin 1

<400> 141

Leu Gly Leu Pro Ala Leu Asp Ser Ala Ile Thr Thr Leu Tyr Tyr
1 5 10 15

<210> 142

<211> 15
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 <213> Artificial Sequence

<220>
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<400> 142
 Pro Ala Leu Asp Ser Ala Ile Thr Thr Leu Tyr Tyr Tyr Thr Ala
 1 5 10 15

<210> 143
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 <212> PRT
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<220>
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<400> 143
 Asp Ser Ala Ile Thr Thr Leu Tyr Tyr Tyr Thr Ala Ser Ser Ala
 1 5 10 15

<210> 144
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<220>
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<400> 144
 Ile Thr Thr Leu Tyr Tyr Tyr Thr Ala Ser Ser Ala Ala Ser Ala
 1 5 10 15

<210> 145
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 <212> PRT
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<400> 145
 Leu Tyr Tyr Tyr Thr Ala Ser Ser Ala Ala Ser Ala Leu Leu Val
 1 5 10 15

<210> 146
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<220>
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<400> 146

Tyr Thr Ala Ser Ser Ala Ala Ser Ala Leu Leu Val Leu Ile Gln
 1 5 10 15

<210> 147

<211> 15

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<400> 147

Ser Ser Ala Ala Ser Ala Leu Leu Val Leu Ile Gln Ser Thr Ala
 1 5 10 15

<210> 148

<211> 15

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<223> Fragments of Bryodin 1

<400> 148

Ala Ser Ala Leu Leu Val Leu Ile Gln Ser Thr Ala Glu Ser Ala
 1 5 10 15

<210> 149

<211> 15

<212> PRT

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<220>

<223> Fragments of Bryodin 1

<400> 149

Leu Leu Val Leu Ile Gln Ser Thr Ala Glu Ser Ala Arg Tyr Lys
 1 5 10 15

<210> 150

<211> 15

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<223> Fragments of Bryodin 1

<400> 150

Leu Ile Gln Ser Thr Ala Glu Ser Ala Arg Tyr Lys Phe Ile Glu
 1 5 10 15

<210> 151

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Fragments of Bryodin 1

<400> 151

Ser	Thr	Ala	Glu	Ser	Ala	Arg	Tyr	Lys	Phe	Ile	Glu	Gln	Gln	Ile
1				5					10					15

<210> 152

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Fragments of Bryodin 1

<400> 152

Glu	Ser	Ala	Arg	Tyr	Lys	Phe	Ile	Glu	Gln	Gln	Ile	Gly	Lys	Arg
1				5					10					15

<210> 153

<211> 15

<212> PRT

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<220>

<223> Fragments of Bryodin 1

<400> 153

Arg	Tyr	Lys	Phe	Ile	Glu	Gln	Gln	Ile	Gly	Lys	Arg	Val	Asp	Lys
1				5					10					15

<210> 154

<211> 15

<212> PRT

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<223> Fragments of Bryodin 1

<400> 154

Phe	Ile	Glu	Gln	Gln	Ile	Gly	Lys	Arg	Val	Asp	Lys	Thr	Phe	Leu
1				5					10					15

<210> 155

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Fragments of Bryodin 1

<400> 155

Gln	Gln	Ile	Gly	Lys	Arg	Val	Asp	Lys	Thr	Phe	Leu	Pro	Ser	Leu
1				5					10					15

<210> 156

<211> 15

<212> PRT

<213> Artificial Sequence

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<223> Fragments of Bryodin 1

<400> 156

Gly	Lys	Arg	Val	Asp	Lys	Thr	Phe	Leu	Pro	Ser	Leu	Ala	Thr	Ile
1				5					10					15

<210> 157

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Fragments of Bryodin 1

<400> 157

Val	Asp	Lys	Thr	Phe	Leu	Pro	Ser	Leu	Ala	Thr	Ile	Ser	Leu	Glu
1				5					10					15

<210> 158

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Fragments of Bryodin 1

<400> 158

Thr	Phe	Leu	Pro	Ser	Leu	Ala	Thr	Ile	Ser	Leu	Glu	Asn	Asn	Trp
1				5					10					15

<210> 159

<211> 15

<212> PRT

<213> Artificial Sequence

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<223> Fragments of Bryodin 1

<400> 159

Pro	Ser	Leu	Ala	Thr	Ile	Ser	Leu	Glu	Asn	Asn	Trp	Ser	Ala	Leu
1				5					10					15

<210> 160

<211> 15

<212> PRT

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<220>

<223> Fragments of Bryodin 1

<400> 160

Ala Thr Ile Ser Leu Glu Asn Asn Trp Ser Ala Leu Ser Lys Gln
1 5 10 15

<210> 161

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Fragments of Bryodin 1

<400> 161

Ser Leu Glu Asn Asn Trp Ser Ala Leu Ser Lys Gln Ile Gln Ile
1 5 10 15

<210> 162

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Fragments of Bryodin 1

<400> 162

Asn Asn Trp Ser Ala Leu Ser Lys Gln Ile Gln Ile Ala Ser Thr
1 5 10 15

<210> 163

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Fragments of Bryodin 1

<400> 163

Ser Ala Leu Ser Lys Gln Ile Gln Ile Ala Ser Thr Asn Asn Gly
1 5 10 15

<210> 164

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Fragments of Bryodin 1

<400> 164

Ser Lys Gln Ile Gln Ile Ala Ser Thr Asn Asn Gly Gln Phe Glu
1 5 10 15

<210> 165

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Fragments of Bryodin 1

<400> 165

Ile	Gln	Ile	Ala	Ser	Thr	Asn	Asn	Gly	Gln	Phe	Glu	Ser	Pro	Val
1				5					10					15

<210> 166

<211> 15

<212> PRT

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<220>

<223> Fragments of Bryodin 1

<400> 166

Ala	Ser	Thr	Asn	Asn	Gly	Gln	Phe	Glu	Ser	Pro	Val	Val	Leu	Ile
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<210> 167

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Fragments of Bryodin 1

<400> 167

Asn	Asn	Gly	Gln	Phe	Glu	Ser	Pro	Val	Val	Leu	Ile	Asp	Gly	Asn
1				5					10					15

<210> 168

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Fragments of Bryodin 1

<400> 168

Gln	Phe	Glu	Ser	Pro	Val	Val	Leu	Ile	Asp	Gly	Asn	Asn	Gln	Arg
1				5					10					15

<210> 169

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Fragments of Bryodin 1

<400> 169

Ser	Pro	Val	Val	Leu	Ile	Asp	Gly	Asn	Asn	Gln	Arg	Val	Ser	Ile
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1 5 10 15

<210> 170
 <211> 15
 <212> PRT
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<220>
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<400> 170
 Val Leu Ile Asp Gly Asn Asn Gln Arg Val Ser Ile Thr Asn Ala
 1 5 10 15

<210> 171
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 171
 Asp Gly Asn Asn Gln Arg Val Ser Ile Thr Asn Ala Ser Ala Arg
 1 5 10 15

<210> 172
 <211> 15
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 <213> Artificial Sequence

<220>
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<400> 172
 Asn Gln Arg Val Ser Ile Thr Asn Ala Ser Ala Arg Val Val Thr
 1 5 10 15

<210> 173
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 173
 Val Ser Ile Thr Asn Ala Ser Ala Arg Val Val Thr Ser Asn Ile
 1 5 10 15

<210> 174
 <211> 15
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 <213> Artificial Sequence

<220>

<223> Fragments of Bryodin 1

<400> 174

Thr	Asn	Ala	Ser	Ala	Arg	Val	Val	Thr	Ser	Asn	Ile	Ala	Leu	Leu
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<210> 175

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Fragments of Bryodin 1

<400> 175

Ser	Ala	Arg	Val	Val	Thr	Ser	Asn	Ile	Ala	Leu	Leu	Leu	Asn	Arg
1				5					10				15	

<210> 176

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Fragments of Bryodin 1

<400> 176

Val	Val	Thr	Ser	Asn	Ile	Ala	Leu	Leu	Leu	Asn	Arg	Asn	Asn	Ile
1				5					10					15

<210> 177

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Fragments of Bryodin 1

<400> 177

Ser	Asn	Ile	Ala	Leu	Leu	Leu	Asn	Arg	Asn	Asn	Ile	Ala	Ala	Ile
1				5					10					15

<210> 178

<211> 15

<212> PRT

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<220>

<223> Fragments of Bryodin 1

<400> 178

Ala	Leu	Leu	Leu	Asn	Arg	Asn	Asn	Ile	Ala	Ala	Ile	Gly	Glu	Asp
1				5					10					15

<210> 179

<211> 15

<212> PRT

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<220>

<223> Fragments of Bryodin 1

<400> 179

Leu	Asn	Arg	Asn	Asn	Ile	Ala	Ala	Ile	Gly	Glu	Asp	Ile	Ser	Met
1				5					10					15

<210> 180

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Fragments of Bryodin 1

<400> 180

Asn	Asn	Ile	Ala	Ala	Ile	Gly	Glu	Asp	Ile	Ser	Met	Thr	Leu	Ile
1				5					10					15

<210> 181

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Fragments of Bryodin 1

<400> 181

Ala	Ala	Ile	Gly	Glu	Asp	Ile	Ser	Met	Thr	Leu	Ile	Gly	Phe	Glu
1				5					10					15

<210> 182

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Fragments of Bryodin 1

<400> 182

Gly	Glu	Asp	Ile	Ser	Met	Thr	Leu	Ile	Gly	Phe	Glu	His	Gly	Leu
1				5					10					15

<210> 183

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Fragments of Bryodin 1

<400> 183

Ile	Ser	Met	Thr	Leu	Ile	Gly	Phe	Glu	His	Gly	Leu	Tyr	Gly	Ile
1				5					10					15